

```

1 import numpy as np #importing math function library
2 import matplotlib.pyplot as plt #importing graphical library
3 from decimal import getcontext, Decimal
4 import scipy
5 import CtetEoM as CT
6
7 old_settings = np.seterr(all = 'ignore')
8
9 getcontext().prec = 5 #setting decimal allowance
10
11 t = np.linspace(0, 1000.0, 1000) # timestep vector with timestep t[1] - t[0]
12
13 i = [np.array([1, 2.0125, 0.035, 0.1]),\
14      np.array([2.3, 5.3, 0.3, 0.1]),\
15      np.array([2.35, 1.071, 0.04, 0.35]),\
16      np.array([1.01, 5.01, 0.01, 0.2])\
17      ] #array of various initial vectors
18
19
20 def s(vpair, tpair): #defining the equations of motion
21
22     (A1, A2, P1, P2) = tuple(vpair) #stores iterable item from the array vpair
23
24     return np.array([CT.DA1(A1, A2, P1, P2), CT.DA2(A1, A2, P1, P2), CT.OP1(A1, A2, P1, P2), CT.OP2(A1, A2, P1, P2)]).T
25
26
27 def rk4(f, t, y0): #defining runge kutta function for multiple coupled equations with initial conditions
28     #          v0 and time step vector t
29
30     N = len(t)
31
32     y = np.array([k*np.ones(N) for k in y0]).T # N by length(v0) array to store iterations,
33     #                                          # takes transpose
34
35     for ii in range(N-1):
36
37         h = t[ii+1] - t[ii] #
38         k1 = h * f(y[ii], t[ii])
39         k2 = h * f(y[ii] + 0.5 * k1, t[ii] + 0.5 * h)
40         k3 = h * f(y[ii] + 0.5 * k2, t[ii] + 0.5 * h)
41         .. .. ..

```

# Python Tutorial Poincare

**M Tight**



**Python Tutorial Poincare:**

This book delves into Python Tutorial Poincare. Python Tutorial Poincare is an essential topic that needs to be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Python Tutorial Poincare, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:

- Chapter 1: Introduction to Python Tutorial Poincare
- Chapter 2: Essential Elements of Python Tutorial Poincare
- Chapter 3: Python Tutorial Poincare in Everyday Life
- Chapter 4: Python Tutorial Poincare in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, the author will provide an overview of Python Tutorial Poincare. The first chapter will explore what Python Tutorial Poincare is, why Python Tutorial Poincare is vital, and how to effectively learn about Python Tutorial Poincare.
3. In chapter 2, the author will delve into the foundational concepts of Python Tutorial Poincare. The second chapter will elucidate the essential principles that need to be understood to grasp Python Tutorial Poincare in its entirety.
4. In chapter 3, the author will examine the practical applications of Python Tutorial Poincare in daily life. This chapter will showcase real-world examples of how Python Tutorial Poincare can be effectively utilized in everyday scenarios.
5. In chapter 4, the author will scrutinize the relevance of Python Tutorial Poincare in specific contexts. The fourth chapter will explore how Python Tutorial Poincare is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, the author will draw a conclusion about Python Tutorial Poincare. This chapter will summarize the key points that have been discussed throughout the book.

The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Python Tutorial Poincare.

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